PTO/SB/05 (03-01) Approved for use through 10/31/2002. OMB 0651-0032

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## UTILITY **PATENT APPLICATION TRANSMITTAL**

Attorney Docket No. 2480 nventor HOFFMAN et al. FURNACE HEARTH FOR IMPROVED MOLTEN First Inventor IRON PRODUCTION AND METHOD OF OPERATION

Express Mail Label No. | EL 873244221 US

Only for new nonprovision	nai applications under 37 CFK 1.53(0))	LXPIG	SS IVIAII LADEI IVO.				
APPLICATION ELEMENTS			DRESS TO: Box	Patent Ap	plicati		
See MPEP chapter 600 concerning utility patent application contents.			Wa	shington, C	C 20	231	
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)			7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)				
2. Applicant claims s See 37 CFR 1.27.			ucleotide and/or Amino A if applicable, all necessar		nce Si	ubmission 5	
3. X4 Specification (preferred arrangement		a.	Computer Readab			940	
	e to Related Applications	b.	Specification Sequence	•		e). or 77	
	arding Fed sponsored R & D equence listing, a table,		ii. paper	(_	<b>-</b>		
or a computer p	program listing appendix	_		na identity	of ab	mya conjas	
- Background of - Brief Summary		C.					
	on of the Drawings (if filed)	<u> </u>	<u>ACCOMPANYING</u>				
- Detailed Descri	ption	9.	Assignment Paper	s (cover sh	eet &	document(s))	
- Claim(s) - Abstract of the	Dischogure	10.	37 CFR 3.73(b) St			Power of	
		, 11.	(when there is an a	• .	nt <i>(if a</i>	Attorney	
4. X Drawing(s) (35 U	[ Total Pages 2	1 12.	Information Disclo Statement (IDS)/P	sure	X	Copies of IDS Citations	
V		13.	Preliminary Amen			ŀ	
Copy from a	uted (original or copy) prior application (37 CFR 1.63 (d)) tion/divisional with Box 18 completed)		X Return Receipt Po	stcard (MI	PEP 5	(03)	
	ION OF INVENTOR(S)	15.	Certified Copy of (if foreign priority)			nt(s)	
	tement attached deleting inventor(s) the prior application, see 37 CFR		Managhliantian D				
	and 1.33(b).	116	(b)(2)(B)(i). Applic or its equivalent.				
6. Application Data	Sheet. See 37 CFR 1.76	17.	Other:		 		
	CATION, check appropriate box, and s	supply the re	quisite information below	and in a p	relimii	nary amendment,	
or in an Application Data She	эөt under 37 CFR 1.76:						
Continuation	Divisional Continuation-in-part (CI	IP)	of prior application No.:				
Prior application information:	Examiner		Group Art Unit:				
For CONTINUATION OR DIVISI Box 5b, is considered a part of The incorporation can only be	ONAL APPS only: The entire disclosure of f the disclosure of the accompany of the relied upon when a portion has the first has 19. COR	the prior a	oplication, from which an o divisional application and i itted from the submitted ap	ath or decia s hereby inc oplication pa	ration corpor arts.	ated by reference.	
	19. CORINGE	A STATE OF	DDRESS				
X Customer Number or Bar Co	12.12	inchmental inte Historia	or			ddress below	
Name	Gregory N. Glements						
	DOUGHERTY & CLEMENTS	LLP					
Address	6230 Fairview Road, S	Suite 4	00	-1			
City	Charlotte	State	NC	Zip C	ode	28210	
Country	USA 1	Telephone	704/366-6642	Fa	x ;	704/366-974	
Name (Print/Type)	Gregory N. Clements	Re	egistration No. (Attorne	y/Agent)	30	,713	
Signature	Gry Whents	)		Date	01	/24/02	

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FEE TO ANOMITTAL	Complete if Known
FEE TRANSMITTAL	Application Number

for FY 2002 Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

**(\$)** 1,040.00

Complete if Known				
Application Number				
Filing Date				
First Named Inventor	HOFFMAN et al.			
Examiner Name				
Group Art Unit				
Attorney Docket No.	2480			

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)					
Check X Credit card Money Other None			3. ADDITIONAL FEES						
Order Order			Large Entity Small Entity						
Deposit A				Fee Code	Fee (\$)	Fee Cod	Fee e (\$)	Fee Description	Fee Paid
Account Number	04-	-1448		105	130	205	65	Surcharge - late filing fee or oath	
Deposit Account Name	Dougher	ty & Cleme	nts	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
The Commission	oner is authori	ized to: (check all tha		139	130	139	130	Non-English specification	
I= ' '	s) indicated bel	<del></del>	ny overpayments	147	2,520	147	2,520	For filing a request for ex parte reexamination	
		) during the pendency		112	920°	112	920*	Requesting publication of SIR prior to	
	· ·	ow, except for the fil	ing fee					Examiner action	
to the above-ide		ALCULATION		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
4 PAGIO FI		ALCOLA HOM		115	110	215	55	Extension for reply within first month	<del> </del>
1. BASIC FI	-			116	400	216	200	Extension for reply within second month	
Fee Fee	Fee Fee	Fee Description	Fee Paid	117	920	217	460	Extension for reply within third month	
Code (\$) 101 740	Code (\$) 201 370	Utility filing fee		118	1,440	218	720	Extension for reply within fourth month	<b></b>
106 330	201 370	Design filing fee	740	128	1,960	228	980	Extension for reply within fifth month	
106 530	207 255	Plant filing fee		119	320	219	160	Notice of Appeal	
107 310	208 370	Reissue filing fee		120	320	220	160	Filing a brief in support of an appeal	
114 160	214 80	Provisional filing fee		121	280	221	140	Request for oral hearing	
,,,,				138	1,510	138	1,510	Petition to institute a public use proceeding	
		SUBTOTAL (1)	740	140	110	240	55	Petition to revive - unavoidable	
2. EXTRA C	LAIM FEES	FOR UTILITY		141	1,280	241	640	Petition to revive - unintentional	<b></b>
i			from Fee Paid	142	1,280	242	640	Utility issue fee (or reissue)	
Total Claims	32 -20*	·= 12 × 18	<u>.00</u> =216.00	143	460	243	230	Design issue fee	<u> </u>
Independent Claims	4 - 3*	·= 1 x 84	<u>.00=[_84.0</u> [	144	620	244	310	Plant issue fee	
Multiple Depen	ndent	L	]=[]	122	130	122	130	Petitions to the Commissioner	<b></b>
				123	50	123	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee	Small Entity Fee Fee	Fee Description	L	126	180	126	180	Submission of Information Disclosure Stmt	<b></b>
Code (\$)	Code (\$)	Claims in excess o		581	40	581	40	Recording each patent assignment per property (times number of properties)	
103 18 102 84	203 9 202 42	Independent claims		146	740	246	370	Filing a submission after final rejection	
104 280	204 140	Multiple dependent	claim, if not paid		740	240	270	(37 ČFR § 1.129(a))  For each additional invention to be	
109 84	209 42	** Reissue indeper over original pate		149	740	249	370	examined (37 CFR § 1.129(b))	
110 18	210 9	** Reissue claims i		179	740	279	370	Request for Continued Examination (RCE)	<b></b>
,	•	and over original	patent	169	900	169	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) _300.00			Other fee (specify)						
**or number previously paid, if greater; For Reissues, see above			*Red	iuced b	y Bas	sic Filing	Fee Paid SUBTOTAL (3) (\$)		

SUBMITTED BY				Complete (#	applicable)
Name (PrintiType)	Gregory N. Clements	Registration No. (Attorney/Agent)	30,713	Telephone	704/366-6642
Signature	Lugy Wlements			Date	January 24,2002

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deposited with the United States Postal Ser	fy that the foregoing or attached documents are being rvice as Express Mail, postage prepaid, in an enveloped Trademarks, Washington, D.C. 20231 on
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	Patricia P. Summer
	Name: Patricia P. Summers
	Express Mail Label Number EL 873244221 US
	January 24, 2002 Date of Deposit
	2 4. C. 2 C. P. C

## NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First N	amed Inventor	HOFFMAN et al.
Title		EARTH FOR IMPROVED MOLTEN JCTION AND METHOD OF OPERATIO
Atty Docket Number		2480

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

January 24, 2002 Date

Gregory N. Clements

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

١, W Jan. NIII.